

**Datasheet for 210-301-C31****Esrp-1/2 Antibody****Overview**

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| <b>Description:</b>  | Anti-Esrp-1/2 (MOUSE) Monoclonal Antibody - 210-301-C31 |
| <b>Item No.:</b>     | 210-301-C31                                             |
| <b>Size:</b>         | 100 µg                                                  |
| <b>Applications:</b> | WB                                                      |
| <b>Reactivity:</b>   | Mouse                                                   |
| <b>Host Species:</b> | Mouse                                                   |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | Epithelial splicing regulatory protein-1 (Esrp-1) and Esrp-2 are mRNA splicing factors that regulate the formation of epithelial cell-specific isoforms. They specifically regulate the expression of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2, and also regulates the splicing of CD44, CTNND1, ENAH, 3 transcripts that undergo changes in splicing during the epithelial-to-mesenchymal transition (EMT). Esrp-1 and -2 act by directly binding specific sequences in mRNAs. They bind the GU-rich sequence motifs in the ISE/ISS-3, a cis-element regulatory region present in the mRNA of FGFR2. |
| <b>Synonyms:</b>     | mouse anti-Esrp1/2 antibody, mouse anti-Esrp1 antibody, mouse anti-Esrp2 antibody, Rbm35a, Epithelial splicing regulatory protein 1, RNA-binding protein 35A, RNA-binding motif protein 35A, RNA-binding protein 35B, RNA-binding motif protein 35B                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Host Species:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Clone ID:</b>     | 23A7.C9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Format:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Target Details**

|                        |                     |
|------------------------|---------------------|
| <b>Gene Name:</b>      | Esrp1/Esrp2         |
| <b>Reactivity:</b>     | Mouse               |
| <b>Immunogen Type:</b> | Recombinant Protein |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Immunogen:</b>          | Anti-Esrp-1/2 was produced by repeated immunizations of full length recombinant mouse Esrp-1 fusion protein.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity/Specificity:</b> | This antibody was purified from tissue culture supernatant by Protein-A chromatography followed by extensive dialysis against the buffer stated above. This antibody reacts with both mouse Esrp-1 and Esrp-2 proteins. A BLAST analysis of the immunizing protein sequence shows 100% homology with Esrp-1 from mouse and a 91% sequence homology with Esrp-1 from human, pig, rat, opossum, horse, cattle, panda, dog, and chimpanzee. The binding epitope of this monoclonal antibody has not been mapped. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">NCBI - NP_789808.1</a></li><li>• <a href="#">UniProtKB - Q8K0G8</a></li><li>• <a href="#">GenelD - 77411</a></li></ul>                                                                                                                                                                                                                                                                                                                                    |

## Application Details

|                             |                                                                                                                                                                                                                                                                                                                                     |
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| <b>Tested Applications:</b> | WB                                                                                                                                                                                                                                                                                                                                  |
| <b>Application Note:</b>    | This protein-A purified antibody has been tested for use western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 75.5 kDa in size corresponding to Esrp-1 and 77.4 kDa in size corresponding to Esrp-2 by western blotting in the appropriate cell lysate or extract. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                                                                                                     |
| <b>ELISA:</b>               | 1:750,000                                                                                                                                                                                                                                                                                                                           |
| <b>WB:</b>                  | 1:1000                                                                                                                                                                                                                                                                                                                              |

## Formulation

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Concentration:</b>  | 1.0 mg/mL by UV absorbance at 280 nm                       |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.01% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | None                                                       |

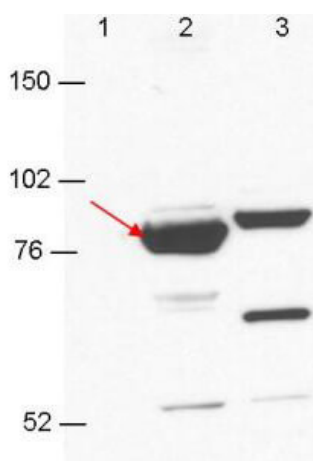
## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Dry Ice |
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**Storage Condition:** Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Expiration:** Expiration date is one (1) year from date of receipt.

## Images



### Western Blot

Anti-Esrp-1/2 antibody by western blot shows detection in 293T cell extracts. Lane 1: GFP-transfected. Lane 2: Esrp-1 transfected (arrow). Lane 3: Esrp-2 transfected. Each lane contains approximately 5 µg of lysate. Primary antibody was used at a 1:1000 dilution in PBS-T plus milk, and reacted for 1hr at room temperature. The membrane was washed and reacted with a 1:10,000 dilution of an anti-mouse ECL antibody for 1hr at room temperature. Molecular weight estimation was made by comparison to prestained MW markers.

## References

- Bangru S et al. ESRP2-microRNA-122 axis promotes the postnatal onset of liver polyploidization and maturation. *Genes Dev.* (2025)

## Disclaimer

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